

THE CLAIMS

What is claimed is:

1. Automotive machine (1) for producing carriageways by stabilizing insufficiently stable soils or by recycling road surfaces, with
 - a machine chassis (4) supported by a running gear (2).
 - a working drum (20) mounted to pivot in relation to the machine chassis (4), the shaft of which is mounted in pivoting arms (42) and runs transversely to the direction of travel,
 - a cover (28) surrounding the working drum (20),
 - a combustion engine (32) supported by the machine chassis (4) with at least one output shaft (34) for the drive power required for driving the working drum (20),
 - whereby at least one mechanical power transmission device (36) transfers the drive power from the output shaft (34) to the working drum (20),

characterized in that,

- the combustion engine (32) is arranged in a fixed manner at the machine chassis (4) between the pivoting arms (42), and
 - that the at least one mechanical power transmission device (36), together with the working drum (20) mounted in the pivoting arms (42), can be pivoted about the axis of the output shaft (34) of the combustion engine (32).
2. Machine in accordance with claim 1, characterized in that the output shaft (34) of the combustion engine (32) is parallel to or coaxial with the crankshaft axle (40) of the combustion engine (32).
 3. Machine in accordance with claims 1 or 2, characterized in that a clutch or a clutch coupled to a pump transfer gearbox in a physical unit is arranged between the output shaft (34) and the power transmission device (36).

4. Machine in accordance with claims 1 to 3, characterized in that an operator's platform (10) is arranged in front of the combustion engine (32) in the direction of travel.
5. Machine in accordance with claim 4, characterized in that the running gear (2) shows front and rear wheels (6, 8) and that the operator's platform (10) is arranged in a transversely movable manner in front of the axles of the front wheels (8).
6. Machine in accordance with one of the claims 1 to 5, characterized in that at least one of the pivoting arms (42) mounted to pivot in the machine chassis (4) receives the power transmission device (36) between the combustion engine (32) and the working drum (20).
7. Machine in accordance with claim 6, characterized in that the working drum (20) is additionally coupled to a lifting device (50) that consists of a link mechanism (52, 56, 58) and is attached to the machine chassis (4).
8. Machine in accordance with claim 7, characterized in that the working drum (20) is coupled to a lifting device (50) on both front ends, whereby the movement of both lifting devices is synchronized.
9. Machine in accordance with claim 7 or 8, characterized in that the lifting device (50) shows two pull rods (52) running parallel to each other, which are flexibly mounted on both sides of the working drum (20).
10. Machine in accordance with claim 9, characterized in that the lifting device (50) shows at least one two-armed lever (54), the one lever arm (56) of which is connected to the free end of the pull rods (52) and the other lever arm (58) of which is flexibly coupled to a piston cylinder unit (60) attached to the machine chassis (4).

11. Machine in accordance with claim 10, characterized in that one two-armed lever (54) is intended for each pull rod (52) and that both levers (54) are connected to each other in a non-rotatable manner by a coupling device (64) that runs parallel to the shaft of the working drum (20) and is mounted in the machine chassis (4).
12. Machine in accordance with one of the claims 6 to 11, characterized in that the combustion engine (32) is mounted between the front and rear wheels (6, 8) of the running gear (2) in the machine chassis (2).